24.04.2024	Kit components	
Product code	Description	
FR-9400	RESOLVE™ Hemoglobin Kit FR-9120, FR-9400, FR-9360	
Components:		
13805308	Cathode Solution	
13805300	Hb Elution Solution	
13805297	Hemoglobin Agarose IEF Gel	
13805304	Anode Solution	



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Identification of the subst	unce or mixture and of the supplier	
Product identifier		
Trade name: <u>Cathode Solution</u>		
Article number: 13805308 Recommended use of the chemic Product category PC21 Labora Application of the substance / the In vitro diagnostics Laboratory chemicals	atory chemicals	
Supplier's details Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111		
Further information obtainable Product safety department. MSDS_Turku@revvity.com Emergency phone number CHEMTREC (whithin U.S.) 800 CHEMTREC (from outside U.S.)	424-9300	
Hazard identification		
Classification of the substance	or mixture	
Corrosive		
Eye Dam. 1 H318 Causes seric	nus eye damage.	
Skin Irrit. 2 H315 Causes skin	irritation.	
Acute Tox. 5 H313 May be harn Acute Tox. 5 H333 May be harn	-	
GHS label elements GHS label elements The product is labelled accordin The product is classified and lab	g to the IVD regulation elled according to the Globally Harmonise	d System (GHS).



(Contd. on page 2)

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· Signal word Danger

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Trade name: Cathode Solution

(Contd. of page 1)

· Hazard-determining components of labelling:
2-aminoethanol
potassium cyanide
· Hazard statements

May be harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye damage.

· Precautionary statements

Wear protective gloves / eye protection / face protection. IF INHALED: Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. · Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition or information on ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:	
141-43-5 2-aminoethanol ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Flam. Lig. 4, H227	≥2.5-<5%
Specific concentration limit: STOT SE 3; H335: $C \ge 5$ %	
151-50-8 potassium cyanide	≥0.025-<0.25%
Additional information: For the wording of the listed hazard phrases refer to section 16.	•

ng oj ine iisieu nu

4 First-aid measures

· Description of necessary first-aid measures

• General information: Immediately remove any clothing soiled by the product.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

• *After skin contact:* Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:

• Most important symptoms or effects, acute and delayed No further relevant information available.

· Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

5 Fire-fighting measures

· Suitable extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

• Specific hazards arising from the chemical No further relevant information available.

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Trade name: Cathode Solution

- · Special protective actions for fire fighters
- Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Dilute with plenty of water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.
- Dispose contaminated material as waste according to section 13.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls or personal protection

• Additional information about design of technical facilities: No further data; see section 7.

· Control parameters

141-43-5 2-aminoethanol	
Short-term value: 12 ppm Long-term value: 6 ppm	
Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Skin	
n cyanide	
Short-term value: 10 mg/m ³ SKIN	
Short-term value: 5 mg/m³ Long-term value: 1 mg/m³ Skin; as cyanide	
1	Short-term value: 12 ppm Long-term value: 6 ppm Short-term value: 7.6 mg/m ³ , 3 ppm Long-term value: 2.5 mg/m ³ , 1 ppm Skin cyanide Short-term value: 10 mg/m ³ SKIN Short-term value: 5 mg/m ³ Long-term value: 1 mg/m ³

· Individual protection measures, such as personal protective equipment (PPE)

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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Trade name: Cathode Solution

(Contd. of page 3)

- Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye or face protection



Tightly sealed goggles

9 Physical and chemical properties

al properties
Solution
Clear
Sulfurous
Not determined.
11
$0 \ ^{\circ}C$
100 °C
Not applicable.
Not applicable.
Not determined.
Product is not selfigniting.
Product does not present an explosion hazard.
imits
Not determined.
Not determined.
23 hPa
l g/cm ³

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Trade name: Cathode Solution

	(Contd. of	page
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol or water	Not determined.	
· Viscosity:		
Dynamic at 20 °C:	0.952 mPas	
Viscosity	Not determined.	
· Solvent content:		
Organic solvents:	3.0 %	
Water:	96.9 %	
Solids content:	0.1 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- \cdot Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity

· LD/LC50 values relevant for classification:

141-43-5 2-aminoethanol

Oral LD50 2,050 mg/kg (rat)

Dermal LD50 1,000 mg/kg (rabbit)

· Primary irritant effect:

· Skin corrosion or irritation Irritant to skin and mucous membranes.

- Serious eye damage or irritation Strong irritant with the danger of severe eye injury.
- Respiratory and skin sensitization No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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Trade name: Cathode Solution

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Must not reach sewage water or drainage ditch undiluted or unneutralised.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· UN number · ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	Not applicable
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II o MARPOL 73/78 and the IBC Code	f Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

· Safety, health and environmental regulations specific for the product in question

- · GHS label elements
- The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms



· Signal word Danger

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Trade name: Cathode Solution

(Contd. of page 6)

· Hazard-determining components of labelling	
	g:
2-aminoethanol	
potassium cyanide	
· Hazard statements	
May be harmful in contact with skin or if inho	uled.
<i>Causes skin irritation.</i>	
Causes serious eye damage.	
Precautionary statements	
Wear protective gloves / eye protection / face	protection
IF INHALED: Call a POISON CENTER/doct	
	several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing.	
Immediately call a POISON CENTER/doctor.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it be	efore reuse.
Directive 2012/18/EU	
Named dangerous substances - ANNEX I No	
Chemical safety assessment: A Chemical Saf	ety Assessment has not been carried out.
Other information	
	owledge. However, this shall not constitute a guarantee for an
specific product features and shall not establi	sh a legally valid contractual relationship.
Relevant phrases	
H227 Combustible liquid.	
H290 May be corrosive to metals.	
H300 Fatal if swallowed.	
H302 Harmful if swallowed.	
H310 Fatal in contact with skin.	
H312 Harmful in contact with skin.	
H314 Causes severe skin burns and eye dama	199
H315 Causes skin irritation.	8
H318 Causes serious eye damage.	
H330 Fatal if inhaled.	
H332 Harmful if inhaled.	
H335 May cause respiratory irritation.	
H400 Very toxic to aquatic life.	
	ing effects
H410 Very toxic to aquatic life with long last	
H410 Very toxic to aquatic life with long last Department issuing SDS: Product safety dep	
H410 Very toxic to aquatic life with long last Department issuing SDS: Product safety dep Contact: MSDS_Turku@revvity.com	
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Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 (Contd. of page 7)

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Version number 6 Printing date 24.04.2024 1 Identification of the substance or mixture and of the supplier · Product identifier • Trade name: Hb Elution Solution · Article number: 13805300 • Recommended use of the chemical and restrictions on use • Product category PC21 Laboratory chemicals · Application of the substance / the mixture In vitro diagnostics Laboratory chemicals · Supplier's details · Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111 • Further information obtainable from: Product safety department. MSDS Turku@revvity.com · Emergency phone number CHEMTREC (whithin U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-572-3887 **2 Hazard identification** · Classification of the substance or mixture The product is not classified, according to the Globally Harmonised System (GHS). · GHS label elements • GHS label elements The product is labelled according to the IVD regulation · Hazard pictograms Void · Signal word Void · Hazard statements Void

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition or information on ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

151-50-8 potassium cyanide ≥0.025-<0.1% ♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ Met. Corr.1, H290; Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=10); (Skin Irrit. 2, H315

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Trade name: Hb Elution Solution

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· Description of necessary first-aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms or effects, acute and delayed No further relevant information available.
- · Indication of immediate medical attention and special treatment needed, if necessary
- No further relevant information available.

5 Fire-fighting measures

- · Suitable extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Specific hazards arising from the chemical No further relevant information available.
- · Special protective actions for fire fighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls or personal protection

• Additional information about design of technical facilities: No further data; see section 7.

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Trade name: Hb Elution Solution

		(Contd. of page 2)
Control parameter		
	-	onitoring at the workplace:
151-50-8 potassiu	-	
OEL (South Africa	 short-term value: 10 mg SKIN 	z/m^3
IOELV (EU)	Short-term value: 5 mg/ Long-term value: 1 mg/r Skin; as cyanide	
· Additional inform	ation: The lists valid durin	g the making were used as basis.
 General protective The usual precaute Respiratory protect Protection of hand The glove materia Due to missing test the chemical mixtu Selection of the degradation Material of gloves The selection of the and varies from m resistance of the g application. Penetration time of The exact break th observed. 	e and hygienic measures: ionary measures are to be ction: Not required. ds: I has to be impermeable an sts no recommendation to to ure. glove material on consid se suitable gloves does not nanufacturer to manufactu love material can not be co of glove material	adhered to when handling chemicals. adhered to when handling chemicals. ad resistant to the product/ the substance/ the preparation. the glove material can be given for the product/ the preparation/ deration of the penetration times, rates of diffusion and the only depend on the material, but also on further marks of quality urer. As the product is a preparation of several substances, the alculated in advance and has therefore to be checked prior to the ad out by the manufacturer of the protective gloves and has to be ad during refilling
9 Physical and c	hemical properties	
	asic physical and chemical	l properties
Form:		Solution
Colour:		Transparent Characteristic
• Odour: • Odour threshold:		Characteristic Not determined.
· pH-value at 20 °C	·	11
· Change in conditi Melting point/fr	on	0 °C 100 °C
· Flash point:		Not applicable.
· Flammability (sol	id, gas):	Not applicable.
· Decomposition ter		Not determined.

Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard. · Upper or lower flammability or explosive limits

· Ignition temperature:

Lower:

Not determined.

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Trade name: Hb Elution Solution

	(Contd. of pag
Upper:	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	1 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol or water	Not determined.
· Viscosity:	
Dynamic at 20 °C:	0.952 mPas
Viscosity	Not determined.
· Solvent content:	
Water:	99.8 %
Solids content:	0.1 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion or irritation No irritant effect.
- Serious eye damage or irritation No irritating effect.
- Respiratory and skin sensitization No sensitising effects known.
- · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:

· General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 5)

Printing date 24.04.2024

Version number 6

Revision: 24.04.2024

Trade name: Hb Elution Solution

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

• Recommendation: Hand over to hazardous waste disposers.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information	
· UN number · ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	Not applicable
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL 73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

· Safety, health and environmental regulations specific for the product in question

· GHS label elements Void

• Hazard pictograms Void

• Signal word Void

· Hazard statements Void

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H290 May be corrosive to metals. H300 Fatal if swallowed.

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ZA

Printing date 24.04.2024

Version number 6

Revision: 24.04.2024

Trade name: Hb Elution Solution

	(Contd. of page 5)
H310 Fatal in contact with skin.	
H315 Causes skin irritation.	
H318 Causes serious eye damage.	
H330 Fatal if inhaled.	
H400 Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.	
• Department issuing SDS: Product safety department.	
· Contact: MSDS_Turku@revvity.com	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreeme	nt Concerning the
International Carriage of Dangerous Goods by Road)	0
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Met. Corr.1: Corrosive to metals – Category 1	
Acute Tox. 2: Acute toxicity – Category 2	
Acute Tox. 1: Acute toxicity – Category 1	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	74



Printing date 24.04.2024

Version number 3

Revision: 24.04.2024

1 Identification of the substance or mixture and of the supplier

· Product identifier

· Trade name: <u>Hemoglobin Agarose IEF Gel</u>

- · Article number: 13805297
- Recommended use of the chemical and restrictions on use
- · Product category PC21 Laboratory chemicals
- *Application of the substance / the mixture In vitro diagnostics Laboratory chemicals*
- Supplier's details • Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111

 Further information obtainable from: Product safety department. MSDS_Turku@revvity.com
 Emergency phone number CHEMTREC (whithin U.S.) 800 424-9300 CHEMTREC (from outside U.S.) +1-703-572-3887

2 Hazard identification

· Classification of the substance or mixture

- The product is not classified, according to the Globally Harmonised System (GHS).
- · GHS label elements
- · GHS label elements The product is labelled according to the IVD regulation
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition or information on ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)

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Printing date 24.04.2024

Version number 3

Revision: 24.04.2024

Trade name: Hemoglobin Agarose IEF Gel

(Contd. of page 1)

4 First-aid measures

- · Description of necessary first-aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms or effects, acute and delayed No further relevant information available.
- · Indication of immediate medical attention and special treatment needed, if necessary
- No further relevant information available.

5 Fire-fighting measures

- · Suitable extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- *Specific hazards arising from the chemical* No further relevant information available.
- · Special protective actions for fire fighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls or personal protection

• Additional information about design of technical facilities: No further data; see section 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

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Printing date 24.04.2024

Version number 3

Revision: 24.04.2024

Trade name: Hemoglobin Agarose IEF Gel

(Contd. of page 2)

· Exposure controls

- · Individual protection measures, such as personal protective equipment (PPE)
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye or face protection Not required.

9 Physical and chemical properties

General Information	
Appearance: Form:	al
Form: Colour:	gel Colourless
Odour:	Odourless
Odour: Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	$0 \ ^{\circ}C$
Initial boiling point and boiling range	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Upper or lower flammability or explosive lin	nits
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	l g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Soluble.
Partition coefficient: n-octanol or water	Not determined.

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Version number 3

Revision: 24.04.2024

Trade name: Hemoglobin Agarose IEF Gel

	(Contd. of page	3)
· Viscosity:		
Dynamic at 20 °C:	0.952 mPas	
Viscosity	Not applicable.	
· Solvent content:		
Organic solvents:	0.1 %	
Water:	98.2 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion or irritation No irritant effect.
- · Serious eye damage or irritation No irritating effect.
- · Respiratory and skin sensitization No sensitising effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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Version number 3

Revision: 24.04.2024

Trade name: Hemoglobin Agarose IEF Gel

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13 Disposal considerations

• Waste treatment methods

 \cdot **Recommendation** Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

- · Recommendation: Hand over to hazardous waste disposers.
- *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

14 Transport information

14 ITunsport information	
· UN number · ADR, IMDG, IATA	Void
· UN proper shipping name · ADR, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex A MARPOL 73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

· Safety, health and environmental regulations specific for the product in question

· GHS label elements Void

- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department.
- · Contact: MSDS_Turku@revvity.com
- Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
 - International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative

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Safety data Sheet in accordance with SANS

Printing date 24.04.2024

Version number 4

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inting date 24.04.2024	Version number 4	<i>Revision: 24.04.20</i>
1 Identification of the substan	ce or mixture and of the supplier	
· Product identifier		
• Trade name: <u>Anode Solution</u>		
 Article number: 13805304 Recommended use of the chemical Product category PC21 Laborato Application of the substance / the In vitro diagnostics Laboratory chemicals 	ory chemicals	
• Supplier's details • Manufacturer/Supplier: Revvity Inc. Wallac Oy P.O. Box 10 FI-20101 Turku Finland +358 2 2678 111		
 Further information obtainable fr Product safety department. MSDS_Turku@revvity.com Emergency phone number CHEMTREC (whithin U.S.) 800 42 CHEMTREC (from outside U.S.) + 	24-9300	
2 Hazard identification		
, i i i i i i i i i i i i i i i i i i i		
• Classification of the substance or		
Skin Corr. 3 H316 Causes mild sk	in irritation.	
 GHS label elements GHS label elements The product is labelled according a The product is classified and labela Hazard pictograms Void Signal word Warning Hazard statements Causes mild skin irritation. Precautionary statements 	to the IVD regulation led according to the Globally Harmonised	! System (GHS).
If skin irritation occurs: Get medic • Other hazards • Results of PBT and vPvB assessm • PBT: Not applicable.		

• **vPvB:** Not applicable.

3 Composition or information on ingredients

• Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

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Printing date 24.04.2024

Version number 4

Revision: 24.04.2024

Trade name: Anode Solution

(Contd. of page 1)• Dangerous components:64-19-7acetic acid64-19-7acetic acid(1, 1, 2, 3, H226)(2, 5-5%)(2, 5-5%)(3, 12, 2, 5, 5)(3, 12, 3, 12, 2, 5, 5)(3, 12, 3, 12, 2, 5, 5)(3, 12, 3, 12, 3, 12, 2, 5, 5)(3, 12, 3, 12, 5, 5)(3, 12, 5,

4 First-aid measures

· Description of necessary first-aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms or effects, acute and delayed No further relevant information available.
- · Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

5 Fire-fighting measures

- · Suitable extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Specific hazards arising from the chemical No further relevant information available.
- · Special protective actions for fire fighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Dilute with plenty of water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

 $(Contd. \ on \ page \ 3)$

ZA –

Printing date 24.04.2024

Version number 4

Revision: 24.04.2024

Trade name: Anode Solution

• Specific end use(s) No further relevant information available.

8 Exposure controls or personal protection

• Additional information about design of technical facilities: No further data; see section 7.

· Control parameters

· Ingredients with lin	nit values that require monitoring at the workplace:
64-19-7 acetic acid	
OEL (South Africa)	Short-term value: 30 ppm Long-term value: 20 ppm
IOELV (EU)	Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm

• Additional information: The lists valid during the making were used as basis.

- · Exposure controls
- · Individual protection measures, such as personal protective equipment (PPE)
- · General protective and hygienic measures:
- Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye or face protection Goggles recommended during refilling

Information on basic physical and chemical properties		
General Information		
Appearance: Form:	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value at 20 °C:	2.4	
Change in condition		
Melting point/freezing point:	$0 \ ^{\circ}C$	
Initial boiling point and boiling range	100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	

(Contd. of page 2)

Printing date 24.04.2024

Version number 4

Revision: 24.04.2024

Trade name: Anode Solution

	(Contd. of page
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
· Upper or lower flammability or explosive limits	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol or water	Not determined.
Viscosity:	
Dynamic at 20 °C:	0.952 mPas
Viscosity	Not determined.
Solvent content:	
Organic solvents:	3.0 %
Water:	97.0 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion or irritation No irritant effect.
- · Serious eye damage or irritation No irritating effect.
- · Respiratory and skin sensitization No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.

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(Contd. of page 4)

Trade name: Anode Solution

- · *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- *Recommended cleansing agents:* Water, if necessary together with cleansing agents.

Transport information		
· UN number · ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	Not applicable	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I MARPOL 73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	Void	

15 Regulatory information

· Safety, health and environmental regulations specific for the product in question

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

- · Hazard pictograms Void
- · Signal word Warning
- · Hazard statements
- Causes mild skin irritation.
- · Precautionary statements

If skin irritation occurs: Get medical advice/attention.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 6)

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Printing date 24.04.2024

Version number 4

Revision: 24.04.2024

Trade name: Anode Solution

(Contd. of page 5)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour. H303 May be harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. · Department issuing SDS: Product safety department. · Contact: MSDS Turku@revvity.com · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 5: Acute toxicity – Category 5 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 3: Skin corrosion/irritation – Category 3